

=> d his

(FILE 'HOME' ENTERED AT 08:53:30 ON 18 SEP 2007)

FILE 'CAPLUS' ENTERED AT 08:53:42 ON 18 SEP 2007

L1 7547 S ABB=ON PLU=ON HYDROFORMYLAT?
L2 344310 S ABB=ON PLU=ON FATTY (2W) ACID
L3 8 S ABB=ON PLU=ON S FATTY (2W) ACID (2W) ESTER
L4 4657 S ABB=ON PLU=ON PHOSPHINE (2W) LIGANDS
L5 0 S ABB=ON PLU=ON METAL ADJ CATION
L6 20536 S METAL CATION
L7 46267 S FATTY ACID (2W) ESTER?
L8 88 S L1 AND L2
L9 2 S L8 AND L4
L10 35 S L7 AND L1
L11 35 S L10 NOT L9
L12 9 S L11 AND ALDEHYDE
L13 0 S MONO ADJ ALCOHOL
L14 195 S MONO ALCOHOL
L15 93005 S DIOL
L16 15205 S TRIOL
L17 2 S L15 AND 65 (2W) PERCENT
L18 5910 S L15 AND L16
L19 486 S L18 AND RATIO
L20 0 S L19 AND FIVE TO ONE
L21 1 S L19 AND L1
L22 0 S L14 AND L3
L23 858248 S ALCOHOL
L24 13110 S L23 AND L7
L25 242 S L24 AND L15
L26 23 S L25 AND L16
L27 22 S L26 NOT L21
L28 0 S L27 AND L4

FILE 'USPATFULL' ENTERED AT 09:22:29 ON 18 SEP 2007

L29 0 S HYSROFORMYLAT?
L30 3412 S HYDROFORMYLAT?
L31 71195 S FATTY ACID (2W) ESTER?
L32 71 S MONOFORMYL
L33 0 S L29 AND L30
L34 223 S L30 AND L31
L35 4 S L34 AND L32

=> log off

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

STN INTERNATIONAL LOGOFF AT 09:29:39 ON 18 SEP 2007

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSPTAYKC1621

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * Welcome to STN International * * * * * * * * *

NEWS 1 Web Page for STN Seminar Schedule - N. America
NEWS 2 JUL 02 LMEDLINE coverage updated
NEWS 3 JUL 02 SCISEARCH enhanced with complete author names
NEWS 4 JUL 02 CHEMCATS accession numbers revised
NEWS 5 JUL 02 CA/CAplus enhanced with utility model patents from China
NEWS 6 JUL 16 CAplus enhanced with French and German abstracts
NEWS 7 JUL 18 CA/CAplus patent coverage enhanced
NEWS 8 JUL 26 USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS 9 JUL 30 USGENE now available on STN
NEWS 10 AUG 06 CAS REGISTRY enhanced with new experimental property tags
NEWS 11 AUG 06 BEILSTEIN updated with new compounds
NEWS 12 AUG 06 FSTA enhanced with new thesaurus edition
NEWS 13 AUG 13 CA/CAplus enhanced with additional kind codes for granted patents
NEWS 14 AUG 20 CA/CAplus enhanced with CAS indexing in pre-1907 records
NEWS 15 AUG 27 Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS 16 AUG 27 USPATOLD now available on STN
NEWS 17 AUG 28 CAS REGISTRY enhanced with additional experimental spectral property data
NEWS 18 SEP 07 STN AnaVist, Version 2.0, now available with Derwent World Patents Index
NEWS 19 SEP 13 FORIS renamed to SOFIS
NEWS 20 SEP 13 INPADOCDB enhanced with monthly SDI frequency
NEWS 21 SEP 17 CA/CAplus enhanced with printed CA page images from 1967-1998
NEWS 22 SEP 17 CAplus coverage extended to include traditional medicine patents

NEWS EXPRESS 05 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 05 SEPTEMBER 2007.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
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FILE 'HOME' ENTERED AT 08:02:44 ON 18 SEP 2007

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE
ENTRY

TOTAL
SESSION
0.84

FULL ESTIMATED COST

0 84

FILE 'CAPLUS' ENTERED AT 08:04:54 ON 18 SEP 2007

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FILE COVERS 1907 - 18 Sep 2007 VOL 147 ISS 13

FILE LAST UPDATED: 17 Sep 2007 (20070917/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s abb=on plu=on fatty (2w) acid
388640 FATTY
14 FATTIES
388644 FATTY
(FATTY OR FATTIES)
4437768 ACID
1591654 ACIDS
4940388 ACID
(ACID OR ACIDS)
L1 344310 FATTY (2W) ACID

=> s abb=on plus on fatty (2w) acid (2w) ester

388640 FATTY

14 FATTIES

388644 FATTY

(FATTY OR FATTIES)

4437768 ACID

1591654 ACIDS

4940388 ACID.

(ACID OR ACIDS)

606358 ESTER
415564 ESTER

445584 ESTERS
841346 ESTER

841548 ESTER

(ESTER OR ESTERS)

L2 44587 FATTY (2W) ACID (2W) ESTER

=> s abb=on plu=on hydroformula?

L3 46 HYDROFORMULA?

=> s hydroformulation

38 HYDROFORMULATION

1 HYDROFORMULATIONS

L4 39 HYDROFORMULATION

(HYDROFORMULATION OR HYDROFORMULATIONS)

=> s abb=on plu=on catalyst (5w) phosphine (2w) ligands

775630 CATALYST

773065 CATALYSTS

991512 CATALYST

(CATALYST OR CATALYSTS)

71174 PHOSPHINE

17130 PHOSPHINES

75955 PHOSPHINE

(PHOSPHINE OR PHOSPHINES)

223515 LIGANDS

L5 339 CATALYST (5W) PHOSPHINE (2W) LIGANDS

=> s metal (2w) cation

1772332 METAL

884864 METALS

2143628 METAL

(METAL OR METALS)

282025 CATION

188388 CATIONS

395740 CATION

(CATION OR CATIONS)

L6 23738 METAL (2W) CATION

=> s abb=on plu=on hydrogen?

L7 1283295 HYDROGEN?

=> s hydrogenation

177702 HYDROGENATION

2336 HYDROGENATIONS

L8 177943 HYDROGENATION

(HYDROGENATION OR HYDROGENATIONS)

=> s diol (4w) triol

79202 DIOL

24604 DIOLS

93005 DIOL

(DIOL OR DIOLS)

13778 TRIOL

2719 TRIOLS

15205 TRIOL

(TRIOL OR TRIOLS)

L9 1276 DIOL (4W) TRIOL

=> d his

(FILE 'HOME' ENTERED AT 08:02:44 ON 18 SEP 2007)

Serial No.: 10/551854

FILE 'CAPLUS' ENTERED AT 08:04:54 ON 18 SEP 2007
L1 344310 S ABB=ON PLU=ON FATTY (2W) ACID
L2 44587 S ABB=ON PLU=ON FATTY (2W) ACID (2W) ESTER
L3 46 S ABB=ON PLU=ON HYDROFORMULA?
L4 39 S HYDROFORMULATION
L5 339 S ABB=ON PLU=ON CATALYST (5W) PHOSPHINE (2W) LIGANDS
L6 23738 S METAL (2W) CATION
L7 1283295 S ABB=ON PLU=ON HYDROGEN?
L8 177943 S HYDROGENATION
L9 1276 S DIOL (4W) TRIOL

=> s abb=on plu=on hydrogenation=NT, rt/ct

NUMERIC VALUE NOT VALID 'NT, RT'

Numeric values may contain 1-8 significant figures. If range notation is used, both the beginning and the end of the range must be specified, e.g., '250-300/MW'. Expressions such as '250-/MW' are not allowed. To search for values above or below a given number, use the >, =>, <, or <= operators, e.g., 'MW => 250'. Text terms cannot be used in numeric expressions. If you specify a unit, it must be dimensionally correct for that field code. To see the unit designations for field codes in the current file, enter "DISPLAY UNIT ALL" at an arrow prompt (=>).

=> s abb=on plu=on hydrogenation+nt, rt/ct

THE ESTIMATED SEARCH COST FOR FILE 'CAPLUS' IS 14.07 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

L10 84722 HYDROGENATION+NT,RT/CT (7 TERMS)

=> d his

(FILE 'HOME' ENTERED AT 08:02:44 ON 18 SEP 2007)

FILE 'CAPLUS' ENTERED AT 08:04:54 ON 18 SEP 2007
L1 344310 S ABB=ON PLU=ON FATTY (2W) ACID
L2 44587 S ABB=ON PLU=ON FATTY (2W) ACID (2W) ESTER
L3 46 S ABB=ON PLU=ON HYDROFORMULA?
L4 39 S HYDROFORMULATION
L5 339 S ABB=ON PLU=ON CATALYST (5W) PHOSPHINE (2W) LIGANDS
L6 23738 S METAL (2W) CATION
L7 1283295 S ABB=ON PLU=ON HYDROGEN?
L8 177943 S HYDROGENATION
L9 1276 S DIOL (4W) TRIOL
L10 84722 S ABB=ON PLU=ON HYDROGENATION+NT,RT/CT

=> ;1 amd ;3

1 IS NOT A RECOGNIZED COMMAND

COMMAND STACK INTERRUPTED. ENTER "DISPLAY HISTORY"

TO SEE WHICH COMMANDS WERE EXECUTED.

The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"/HELP COMMANDS" at an arrow prompt (=>).

=> s l1 and l3

L11 0 L1 AND L3

=> s abb=on plu=on hydroformyla?

L12 7547 HYDROFORMyla?

=> l12 and l1

L12 IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (>).

=> s l12 and l1

L13 88 L12 AND L1

=> s l13 and aldehyde

114006 ALDEHYDE

108451 ALDEHYDES

174070 ALDEHYDE

(ALDEHYDE OR ALDEHYDES)

L14 19 L13 AND ALDEHYDE

=> s l14 and l10

L15 3 L14 AND L10

=> d l15 1-3 Ibib abs

L15 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:395471 CAPLUS

DOCUMENT NUMBER: 142:428892

TITLE: Production of hydrocarbons and oxygen-containing compounds from biomass using fermentation combined with chemical synthesis

INVENTOR(S): Golubkov, Igor

PATENT ASSIGNEE(S): Swedish Biofuels AB, Swed.

SOURCE: PCT Int. Appl., 66 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005040392	A1	20050506	WO 2004-SE1534	20041022
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
SE 2003002800	A	20050425	SE 2003-2800	20031024
SE 526429	C2	20050913		
AU 2004284364	A1	20050506	AU 2004-284364	20041022
CA 2541899	A1	20050506	CA 2004-2541899	20041022
US 2005112739	A1	20050526	US 2004-970835	20041022
EP 1680509	A1	20060719	EP 2004-793835	20041022
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
CN 1871358	A	20061129	CN 2004-80031303	20041022

BR 2004015619	A	20061212	BR 2004-15619	20041022
MX 2006PA04340	A	20060904	MX 2006-PA4340	20060419
IN 2006CN01816	A	20070608	IN 2006-CN1816	20060524
PRIORITY APPLN. INFO.:			SE 2003-2800	A 20031024
			US 2003-513583P	P 20031024
			WO 2004-SE1534	W 20041022

AB A method which can be used in fermenting carbohydrate substrates of plant origin for producing C1-C5 alcs., and for synthesis of higher alcs., and other oxygen-containing compds. Since C6 and higher alcs. are not obtainable by a direct biochem. route, it is proposed to synthesize these using known chemical reactions, wherein the raw material for synthesis is biogas and lower C2-C5 alcs. obtained by the inventive method wherein the amino acids leucine, isoleucine, and valine, or a mixture thereof, optionally obtained from yeast autolyzate, is used as a biocatalyst at the stage of fermentation

It is also proposed to use degraders of C2-C5 alcs. production for obtaining biogas. The method offers a solution to the following problems: to considerably increase the yield of C2-C5 alcs. in fermentation of carbohydrate substrates; to increase by 1.5-2.0 times the productivity of the fermentation in terms of C2-C5 alcs. production; to utilize the protein-containing waste for C2-C5 alcs. production, to reach highest efficiency of biomass utilization in producing higher oxygen-containing compds. and hydrocarbons.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:71152 CAPLUS
DOCUMENT NUMBER: 142:158390
TITLE: Minimization of formation of phosphine ligand degradation products or promotion of reversion of same to useful phosphine ligands in reaction of olefins
INVENTOR(S): Briggs, John R.; Peng, Wei-Jun; Roesch, Brian M.; Abatjoglou, Anthony G.; Morrison, Donald L.
PATENT ASSIGNEE(S): Union Carbide Chemicals & Plastics Technology Corporation, USA
SOURCE: PCT Int. Appl., 49 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005007602	A1	20050127	WO 2004-US20813	20040628
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2530739	A1	20050127	CA 2004-2530739	20040628

EP 1646599	A1	20060419	EP 2004-756323	20040628
R: DE, FR, NL				
BR 2004011948	A	20060829	BR 2004-11948	20040628
CN 1997616	A	20070711	CN 2004-80019013	20040628
US 2007100169	A1	20070503	US 2005-562602	20051228
PRIORITY APPLN. INFO.:			US 2003-484807P	P 20030703
			WO 2004-US20813	W 20040628

OTHER SOURCE(S): MARPAT 142:158390

AB Minimization of formation of phosphonium ion ligand degradation products during reaction of a polyunsatd. olefin or an unconjugated functionalized olefin, such as hydroformylation, in the presence of a transition metal-triorganophosphine ligand complex catalyst to form, as a product, byproduct, or intermediate product, a conjugated functionalized olefin having a carbon-carbon double bond conjugated to an α -electron-withdrawing group, such as, an α,β -unsatd. aldehyde, ketone, ester, acid, or nitrile involves conducting the reaction under selected conditions of conversion, temperature, pressure, or a combination thereof; and/or by selecting a triorganophosphine ligand with a specified steric and/or electronic property. Further, a process for reversion of phosphonium ion ligand degradation product(s) back to useful triorganophosphine ligand(s) involves treating a reaction product fluid containing the degradation product(s) with an inert gas, hydrogen, synthesis gas, or a mixture thereof under conditions sufficient to regenerate the triorganophosphine ligand(s).

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:965199 CAPLUS *Carb under review*
 DOCUMENT NUMBER: 141:412736
 TITLE: Aldehyde and alcohol compositions derived from seed oils
 INVENTOR(S): Lysenko, Zenon; Morrison, Donald L.; Babb, David A.; Bunning, Donald L.; Derstine, Christopher W.; Gilchrist, James H.; Jouett, Ray H.; Kanel, Jeffrey S.; Olson, Kurt D.; Peng, Wei-Jun; Phillips, Joe D.; Roesch, Brian M.; Sanders, Aaron W.; Schrock, Alan K.; Thomas, P. J.
 PATENT ASSIGNEE(S): Dow Global Technologies Inc., USA
 SOURCE: PCT Int. Appl., 35 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004096744	A2	20041111	WO 2004-US12246	20040422
WO 2004096744	A3	20050120		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,				

ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
 SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
 TD, TG

CA 2523433	A1	20041111	CA 2004-2523433	20040422
EP 1620387	A2	20060201	EP 2004-750403	20040422
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
CN 1780808	A	20060531	CN 2004-80011116	20040422
BR 2004010529	A	20060620	BR 2004-10529	20040422
US 2006193802	A1	20060831	US 2005-551854	20050930
IN 2005CN02747	A	20070831	IN 2005-CN2747	20051024
PRIORITY APPLN. INFO.:				
			US 2003-465663P	P 20030425
			WO 2004-US12246	W 20040422

OTHER SOURCE(S): MARPAT 141:412736

AB An aldehyde composition derived by hydroformylation of a transesterified seed oil comprises a mixture of formyl-substituted fatty acids or fatty acid esters comprising from 10 to 95% of monoformyl, from 1 to 65% of diformyl, and from 0.1 to 10% of trifomyl-substituted fatty acids or fatty acid esters with a diformyl to trifomyl ratio > 5/1. The aldehyde mixture preferably contains from 3 to 20% of sats., and from 1 to 20% of unsaturates. An alc. composition derived by hydrogenation of the aldehyde composition comprises a mixture of hydroxymethyl-substituted fatty acids or fatty acid esters comprising from 10 to 95% of monoalc. (monohydroxymethyl), from 1 to 65% of diol (dihydroxymethyl), from 0.1 to 10% of triol (trihydroxymethyl)-substituted fatty acids or fatty acid esters. The alc. mixture preferably contains from 3 to 35% of sats., and < 10% of unsaturates. The alc. composition may be converted into an oligomeric polyol for use in the manufacture of polyurethane slab stock flexible foams.

=> d hist

(FILE 'HOME' ENTERED AT 08:02:44 ON 18 SEP 2007)

FILE 'CAPLUS' ENTERED AT 08:04:54 ON 18 SEP 2007

L1	344310 S ABB=ON PLU=ON FATTY (2W) ACID
L2	44587 S ABB=ON PLU=ON FATTY (2W) ACID (2W) ESTER
L3	46 S ABB=ON PLU=ON HYDROFORMULA?
L4	39 S HYDROFORMULATION
L5	339 S ABB=ON PLU=ON CATALYST (5W) PHOSPHINE (2W) LIGANDS
L6	23738 S METAL (2W) CATION
L7	1283295 S ABB=ON PLU=ON HYDROGEN?
L8	177943 S HYDROGENATION
L9	1276 S DIOL (4W) TRIOL
L10	84722 S ABB=ON PLU=ON HYDROGENATION+NT, RT/CT
L11	0 S L1 AND L3
L12	7547 S ABB=ON PLU=ON HYDROFORMYLA?
L13	88 S L12 AND L1
L14	19 S L13 AND ALDEHYDE
L15	3 S L14 AND L10

=> s l2 and l10

L16 481 L2 AND L10

=> s l16 and l19

L17 1 L16 AND L9

=> d l17 ibib abs

L17 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2007:348602 CAPLUS *1002 found*
 DOCUMENT NUMBER: 147:51914
 TITLE: Production of polyols from canola oil and their
 chemical identification and physical properties
 AUTHOR(S): Narine, Suresh S.; Yue, Jin; Kong, Xiaohua
 CORPORATE SOURCE: Department of Agricultural Food and Nutritional
 Science, 4-10 Agricultural/Forestry Centre, University
 of Alberta, Edmonton, AB, T6G 2P5, Can.
 SOURCE: Journal of the American Oil Chemists' Society (2007),
 84(2), 173-179
 CODEN: JAOCAT; ISSN: 0003-021X

PUBLISHER: Springer
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB The feasibility of a method based on ozonolysis and hydrogenation reactions for the production of polyols from unsatd. canola oil was demonstrated. Polyol products with primary alc. functional groups at position 9 of each fatty acid ester in the original triacylglycerol have been produced from canola oil. Short straight-chain alcs. were also produced and were removed by wiped-blade mol. distillation. The pure components of the polyol, i.e. mono-ol, diol and triol were separated by flash chromatog., and identified by Fourier-transform IR (FTIR), 1H-NMR, 13C-NMR as well as mass spectrometry. Polyol identification was facilitated by the use of a simple high-performance liquid chromatog. (HPLC) method to determine the composition of the

polyol mixture, which can be exploited as a quality-control mechanism in designing novel polyol feed-stocks. Basic correlations were established between the mol. diversity of the polyols and their physicochem. properties, such as hydroxyl number, acidity number, and viscosity. It has

been found that the produced polyols are suitable for processing methods employing polyols for the production of polyurethanes and can be manipulated to create polyurethanes with desirable properties.

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s 12 and 1112 and 110 and 19 not 115

8 LL12

L18 0 L2 AND LL12 AND L10 AND L9 NOT L15

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSPTAYKC1621

PASSWORD:
 THIS LOGINID IS CURRENTLY IN USE.

Serial No.: 10/551854

DO YOU WISH TO RESUME THE PREVIOUS SESSION? Y/(N)/?:
Invalid response, please try again

Invalid response, please try again

Invalid response, please try again

THE PREVIOUS SESSION IS BEING DISCONNECTED.
PLEASE LOG IN AGAIN TO BE RECONNECTED.
SYSTEM LOGOFF AT 08:51:20 ON 18 SEP 2007 US EASTERN TIME

Connection closed by remote host

A new logon attempt will be made when this window closes. If you chose to RESUME PREVIOUS SESSION, then continue with the logon process as normal. If not, choose Cancel or <ESC> to interrupt the logon process.

y
Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSPTAYKC1621

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * * Welcome to STN International * * * * * * * * * * *

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NEWS 2 JUL 02 LMEDLINE coverage updated
NEWS 3 JUL 02 SCISEARCH enhanced with complete author names
NEWS 4 JUL 02 CHEMCATS accession numbers revised
NEWS 5 JUL 02 CA/CAPLUS enhanced with utility model patents from China
NEWS 6 JUL 16 CAPLUS enhanced with French and German abstracts
NEWS 7 JUL 18 CA/CAPLUS patent coverage enhanced
NEWS 8 JUL 26 USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS 9 JUL 30 USGENE now available on STN
NEWS 10 AUG 06 CAS. REGISTRY enhanced with new experimental property tags
NEWS 11 AUG 06 BEILSTEIN updated with new compounds
NEWS 12 AUG 06 FSTA enhanced with new thesaurus edition
NEWS 13 AUG 13 CA/CAPLUS enhanced with additional kind codes for granted
patents
NEWS 14 AUG 20 CA/CAPLUS enhanced with CAS indexing in pre-1907 records
NEWS 15 AUG 27 Full-text patent databases enhanced with predefined
patent family display formats from INPADOCDB
NEWS 16 AUG 27 USPATOLD now available on STN
NEWS 17 AUG 28 CAS REGISTRY enhanced with additional experimental

spectral property data
NEWS 18 SEP 07 STN AnaVist, Version 2.0, now available with Derwent World Patents Index
NEWS 19 SEP 13 FORIS renamed to SOFIS
NEWS 20 SEP 13 INPADOCDB enhanced with monthly SDI frequency
NEWS 21 SEP 17 CA/CAplus enhanced with printed CA page images from 1967-1998
NEWS 22 SEP 17 CAplus coverage extended to include traditional medicine patents

NEWS EXPRESS 05 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0C(ENG) AND V6.0JC(JP), AND CURRENT DISCOVER FILE IS DATED 05 SEPTEMBER 2007.

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(FILE 'HOME' ENTERED AT 08:53:30 ON 18 SEP 2007)

FILE 'CAPLUS' ENTERED AT 08:53:42 ON 18 SEP 2007

=> s abb=on plu=on hydroformylat?

L1 7547 HYDROFORMYLAT?

=> s abb=on plu=on fatty (2w) acid

388640 FATTY

14 FATTIES

388644 FATTY

(FATTY OR FATTIES)

4437768 ACID

1591654 ACIDS

4940388 ACID

(ACID OR ACIDS)

L2 344310 FATTY (2W) ACID

=> s abb=on plu=on s fatty (2w) acid (2w) ester

3026127 S

388640 FATTY

14 FATTIES

388644 FATTY

(FATTY OR FATTIES)

164 S FATTY

(S(W) FATTY)

4437768 ACID

1591654 ACIDS

4940388 ACID

(ACID OR ACIDS)

606358 ESTER

445584 ESTERS

841346 ESTER

(ESTER OR ESTERS)

L3 8 S FATTY (2W) ACID (2W) ESTER

=> s abb=on plu=on phosphine (2w) ligands

71174 PHOSPHINE

17130 PHOSPHINES

75955 PHOSPHINE

(PHOSPHINE OR PHOSPHINES)

223515 LIGANDS

L4 4657 PHOSPHINE (2W) LIGANDS

=> s abb=on plu=on metal adj cation

1772332 METAL

884864 METALS

2143628 METAL

(METAL OR METALS)

271 ADJ

282025 CATION

188388 CATIONS

395740 CATION

(CATION OR CATIONS)

L5 0 METAL ADJ CATION

(METAL(W)ADJ(W)CATION)

=> s metal cation
1772332 METAL
884864 METALS
2143628 METAL
(METAL OR METALS)
282025 CATION
188388 CATIONS
395740 CATION
(CATION OR CATIONS)
L6 20536 METAL CATION
(METAL(W) CATION)

=> d his

(FILE 'HOME' ENTERED AT 08:53:30 ON 18 SEP 2007)

FILE 'CAPLUS' ENTERED AT 08:53:42 ON 18 SEP 2007
L1 7547 S ABB=ON PLU=ON HYDROFORMYLAT?
L2 344310 S ABB=ON PLU=ON FATTY (2W) ACID
L3 8 S ABB=ON PLU=ON S FATTY (2W) ACID (2W) ESTER
L4 4657 S ABB=ON PLU=ON PHOSPHINE (2W) LIGANDS
L5 0 S ABB=ON PLU=ON METAL ADJ CATION
L6 20536 S METAL CATION

=> s fatty acid (2w) ester?
388640 FATTY
14 FATTIES
388644 FATTY
(FATTY OR FATTIES)
4437768 ACID
1591654 ACIDS
4940388 ACID
(ACID OR ACIDS)
343279 FATTY ACID
(FATTY(W)ACID)
938749 ESTER?
L7 46267 FATTY ACID (2W) ESTER?

=> s l1 and l2
L8 88 L1 AND L2

=> s l8 and l4
L9 2 L8 AND L4

=> d 19 1-2 ibib abs

L9 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:71152 CAPLUS
DOCUMENT NUMBER: 142:158390
TITLE: Minimization of formation of phosphine ligand
degradation products or promotion of reversion of same
to useful phosphine ligands in
reaction of olefins
INVENTOR(S): Briggs, John R.; Peng, Wei-Jun; Roesch, Brian M.;
Abatjoglou, Anthony G.; Morrison, Donald L.
PATENT ASSIGNEE(S): Union Carbide Chemicals & Plastics Technology
Corporation, USA
SOURCE: PCT Int. Appl., 49 pp.

CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|------------------|------------|
| WO 2005007602 | A1 | 20050127 | WO 2004-US20813 | 20040628 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
SN, TD, TG | | | | |
| CA 2530739 | A1 | 20050127 | CA 2004-2530739 | 20040628 |
| EP 1646599 | A1 | 20060419 | EP 2004-756323 | 20040628 |
| R: DE, FR, NL | | | | |
| BR 2004011948 | A | 20060829 | BR 2004-11948 | 20040628 |
| CN 1997616 | A | 20070711 | CN 2004-80019013 | 20040628 |
| US 2007100169 | A1 | 20070503 | US 2005-562602 | 20051228 |
| PRIORITY APPLN. INFO.: | | | US 2003-484807P | P 20030703 |
| | | | WO 2004-US20813 | W 20040628 |

OTHER SOURCE(S): MARPAT 142:158390
 AB Minimization of formation of phosphonium ion ligand degradation products during reaction of a polyunsatd. olefin or an unconjugated functionalized olefin, such as hydroformylation, in the presence of a transition metal-triorganophosphine ligand complex catalyst to form, as a product, byproduct, or intermediate product, a conjugated functionalized olefin having a carbon-carbon double bond conjugated to an α -electron-withdrawing group, such as, an α,β -unsatd. aldehyde, ketone, ester, acid, or nitrile involves conducting the reaction under selected conditions of conversion, temperature, pressure, or a combination

thereof; and/or by selecting a triorganophosphine ligand with a specified steric and/or electronic property. Further, a process for reversion of phosphonium ion ligand degradation product(s) back to useful triorganophosphine ligand(s) involves treating a reaction product fluid containing the degradation product(s) with an inert gas, hydrogen, synthesis gas, or a mixture thereof under conditions sufficient to regenerate the triorganophosphine ligand(s).

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1998:97390 CAPLUS
 DOCUMENT NUMBER: 128:129407
 TITLE: Hydroformylation of polyunsaturated fatty substances
 AUTHOR(S): Fell, B.
 CORPORATE SOURCE: Institut fur Technische Chemie und Petrolchemie,
 Technische Hochschule Aachen, Aachen, D - 52056,
 Germany

SOURCE: Oils-Fats-Lipids 1995, Proceedings of the World Congress of the International Society for Fat Research, 21st, The Hague, Oct. 1-6, 1995 (1996), Meeting Date 1995, Volume 3, 461-463. P.J. Barnes & Associates: Bridgwater, UK.
CODEN: 65QOAT

DOCUMENT TYPE: Conference; General Review

LANGUAGE: English

AB A review, with apprx.13 refs., on hydroformylation of unsatd. fatty polyunsatd. substances to obtain organic compound feedstocks. Homogeneous rhodium carbonyl/tertiary phosphine catalyst systems with a high excess of the tertiary phosphine as hydroformylation catalysts and separation of the catalyst from non-distillable reaction products and recycling of the catalyst system are discussed. Use of solid phase phosphines as complex ligands for the rhodium catalyst, rhodium carbonyl/tertiary phosphine catalyzed micellar hydroformylation in an aqueous-organic two-phase system, and a mixed homogeneous-heterogeneous hydroformylation procedure using rhodium carbonyl/tertiary phosphine catalyst systems that were as soluble in polar organic solvents, such as methanol, as in water are also discussed.

REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

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L1 7547 S ABB=ON PLU=ON HYDROFORMYLAT?
L2 344310 S ABB=ON PLU=ON FATTY (2W) ACID
L3 8 S ABB=ON PLU=ON S FATTY (2W) ACID (2W) ESTER
L4 4657 S ABB=ON PLU=ON PHOSPHINE (2W) LIGANDS
L5 0 S ABB=ON PLU=ON METAL ADJ CATION
L6 20536 S METAL CATION
L7 46267 S FATTY ACID (2W) ESTER?
L8 88 S L1 AND L2
L9 2 S L8 AND L4

=> s 17 and 11

L10 35 L7 AND L1

=> s 110 not 19

L11 35 L10 NOT L9

=> s 111 and aldehyde

114006 ALDEHYDE
108451 ALDEHYDES
174070 ALDEHYDE
(ALDEHYDE OR ALDEHYDES)

L12 9 L11 AND ALDEHYDE

=> d 112 1-9 ibib abs

L12 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:913854 CAPLUS

TITLE: Producing polyurethane foam from natural oil

AUTHOR(S): Sanders, Aaron; Babb, David; Prange, Robbyn; Sonnenschein, Mark; Delk, Van; Derstine, Chris; Olson,

Kurt

CORPORATE SOURCE: The Dow Chemical Company, Freeport, TX, 77541, USA
 SOURCE: Chemical Industries (Boca Raton, FL, United States)
 (2007), 115(Catalysis of Organic Reactions), 377-384
 CODEN: CHEIDI; ISSN: 0737-8025

PUBLISHER: CRC Press LLC

DOCUMENT TYPE: Journal

LANGUAGE: English

AB As part of the effort to reduce our dependence on fossil fuels, The Dow Chemical Company has been developing a seed oil based polyol to be used as a replacement to conventional petrochem. based polyether polyols in the production of flexible polyurethane foam. The general process for making natural oil polyols consists of four steps. In the first step, a vegetable oil (triglyceride) is transesterified with methanol, liberating glycerin, and forming fatty acid Me esters or FAMEs. In the second step the FAMEs are hydroformylated giving a complex mixture of FAMEs that contain 0-3 formyl groups per chain. In the third step, the aldehydes and the remaining unsaturates are hydrogenated to yield a mixture of FAMEs that contain 0-3 hydroxymethyl groups. Finally, the poly(hydroxymethyl)fatty esters are transesterified onto a suitable initiator to produce the natural oil polyol.

L12 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:390850 CAPLUS

DOCUMENT NUMBER: 144:90002

TITLE: Isomerizing hydroformylation of fatty acid esters:

Formation of ω - aldehydes

AUTHOR(S): Behr, Arno; Obst, Dietmar; Westfechtel, Alfred

CORPORATE SOURCE: Lehrstuhl fuer Technische Chemie A, Universitaet Dortmund, Dortmund, Germany

SOURCE: European Journal of Lipid Science and Technology (2005), 107(4), 213-219

CODEN: EJLTFM; ISSN: 1438-7697

PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The isomerizing hydroformylation of fatty acid esters to oleochems. with an addnl. ω -standing aldehyde group can be performed at a relatively low temperature of 115° and a synthesis gas pressure of 20 bar. In the case of oleic acid ester, the best yield of linear aldehyde is 26%, in the case of linoleic acid ester, it is 34%. For both fatty compds., a strong hydrogenation side reaction is observed, which can be explained by a steering effect of the ester group. The ester function of the fatty compds. makes hydroformylation in the surrounding area of this group impossible. Reactions with the model substances Et crotonate and Et sorbate showed that hydrogenation predominates, leading to the corresponding saturated compds.

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:965199 CAPLUS

DOCUMENT NUMBER: 141:412736

TITLE: Aldehyde and alcohol compositions derived from seed oils

INVENTOR(S): Lysenko, Zenon; Morrison, Donald L.; Babb, David A.; Bunning, Donald L.; Derstine, Christopher W.;

*Current
Cite*

Gilchrist, James H.; Jouett, Ray H.; Kanel, Jeffrey S.; Olson, Kurt D.; Peng, Wei-Jun; Phillips, Joe D.; Roesch, Brian M.; Sanders, Aaron W.; Schrock, Alan K.; Thomas, P. J.

PATENT ASSIGNEE(S): Dow Global Technologies Inc., USA

SOURCE: PCT Int. Appl., 35 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|------------------|------------|
| WO 2004096744 | A2 | 20041111 | WO 2004-US12246 | 20040422 |
| WO 2004096744 | A3 | 20050120 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
TD, TG | | | | |
| CA 2523433 | A1 | 20041111 | CA 2004-2523433 | 20040422 |
| EP 1620387 | A2 | 20060201 | EP 2004-750403 | 20040422 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK | | | | |
| CN 1780808 | A | 20060531 | CN 2004-80011116 | 20040422 |
| BR 2004010529 | A | 20060620 | BR 2004-10529 | 20040422 |
| US 2006193802 | A1 | 20060831 | US 2005-551854 | 20050930 |
| IN 2005CN02747 | A | 20070831 | IN 2005-CN2747 | 20051024 |
| PRIORITY APPLN. INFO.: | | | US 2003-465663P | P 20030425 |
| | | | WO 2004-US12246 | W 20040422 |

OTHER SOURCE(S): MARPAT 141:412736

AB An aldehyde composition derived by hydroformylation of a transesterified seed oil comprises a mixture of formyl-substituted fatty acids or fatty acid esters comprising from 10 to 95% of monoformyl, from 1 to 65% of diformyl, and from 0.1 to 10% of trifomyl-substituted fatty acids or fatty acid esters with a diformyl to trifomyl ratio > 5/1. The aldehyde mixture preferably contains from 3 to 20% of sats., and from 1 to 20% of unsaturates. An alc. composition derived by hydrogenation of the aldehyde composition comprises a mixture of hydroxymethyl-substituted fatty acids or fatty acid esters comprising from 10 to 95% of monoalc. (monohydroxymethyl), from 1 to 65% of diol (dihydroxymethyl), from 0.1 to 10% of triol (trihydroxymethyl)-substituted fatty acids or fatty acid esters. The alc. mixture preferably contains from 3 to 35% of sats., and < 10% of unsaturates. The alc. composition may be converted into an oligomeric polyol for use in the manufacture of polyurethane slab stock flexible foams.

L12 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:764001 CAPLUS

DOCUMENT NUMBER: 131:352840

TITLE: Method and catalysts for the hydroformylation

of olefins in an aqueous microemulsion into
aldehydes

INVENTOR(S): Schomacker, Reinhard; Haumann, Marco; Koch, Herbert
 PATENT ASSIGNEE(S): RWE-DEA AG fuer Mineraloel und Chemie, Germany
 SOURCE: PCT Int. Appl., 21 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|------------------|------------|
| WO 9961401 | A1 | 19991202 | WO 1999-DE1521 | 19990521 |
| W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DK,
EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW,
MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR,
TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| DE 19822968 | A1 | 19991202 | DE 1998-19822968 | 19980525 |
| AU 9951492 | A | 19991213 | AU 1999-51492 | 19990521 |
| EP 1084094 | A1 | 20010321 | EP 1999-936298 | 19990521 |
| EP 1084094 | B1 | 20030730 | | |
| R: AT, BE, DE, DK, ES, FR, GB, IT, NL, SE | | | | |
| JP 2002516300 | T | 20020604 | JP 2000-550813 | 19990521 |
| AT 246164 | T | 20030815 | AT 1999-936298 | 19990521 |
| ES 2200534 | T3 | 20040301 | ES 1999-936298 | 19990521 |
| US 6452055 | B1 | 20020917 | US 2001-700827 | 20010105 |
| PRIORITY APPLN. INFO.: | | | DE 1998-19822968 | A 19980525 |
| | | | WO 1999-DE1521 | W 19990521 |

AB Olefins (e.g., 1-dodecene) are efficiently hydroformylated by reacting them with hydrogen and carbon monoxide in a liquid, aqueous-organic reaction medium in the presence of a water-soluble hydroformylation catalyst [e.g., trisodium tris(3-sulfophenyl)phosphine and Ph(CO)₂(acac)]. During the hydroformylation, the aqueous-organic medium is present in the form of a microemulsion which is formed from an oil phase, containing the olefin or the olefin and the hydroformylation products (e.g., n-tridecanal and 2-methyldodecanal), and from the aqueous phase, containing the water-soluble complex catalyst, and from a nonionic surfactant (e.g., Marlipal 013/70).

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1990:177998 CAPLUS
 DOCUMENT NUMBER: 112:177998
 TITLE: Comparison of the preparation of higher fatty alcohols using primary processes for hydroformylation, hydrocarboxymethylation, and epoxidation of alkenes
 AUTHOR(S): Macho, V.; Jurecek, L.
 CORPORATE SOURCE: Slov. Vys. Sk. Tech., Chem.-Technol. Fak., Bratislava, Czech.
 SOURCE: Petrochemia (1989), 29(2), 33-43
 CODEN: PTCMB7; ISSN: 0370-2154
 DOCUMENT TYPE: Journal
 LANGUAGE: Slovak

AB Hydrocarboxymethylation of C10-13 internal n-alkenes was recommended for the title process, and gave C10-14 fatty acid Me esters via ≤55.6% isomerization to 1-alkenes by the pyridine-Co₂(CO)₈ catalyst. Epoxidn.-hydrogenolysis of C10-18 1-alkenes proceeded with ≥90% selectivity for primary alcs. Hydroformylation of C10-13 n-alkenes to give C11-14 fatty alcs. was useful only for 1-alkenes, but also gave significant amts. of aldehydes and/or alkanes.

L12 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1989:59869 CAPLUS
 DOCUMENT NUMBER: 110:59869
 TITLE: Effect of some additives and impurities on the yield of lower aliphatic aldehydes during fractionation
 AUTHOR(S): Kuz'mina, L. S.; Maiorova, L. V.
 CORPORATE SOURCE: USSR
 SOURCE: Zhurnal Prikladnoi Khimii (Sankt-Peterburg, Russian Federation) (1988), 61(9), 2068-70
 CODEN: ZPKHAB; ISSN: 0044-4618
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian

AB The yield of butyraldehydes and isovaleraldehyde during their recovery by fractionation from the ethylene or propylene hydroformylation products containing residual Co catalyst increased on addition of H₂O or n-hydroxycaprolactam esters of C10-16 fatty acids. The yield of isobutyraldehyde was independent of the content of impurities (Bu alcs., HCO₂Bu, butyric acids) in hydroformylation products containing no residual catalyst, whereas that of n-butyraldehyde decreased with increasing content of impurities.

L12 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1978:152052 CAPLUS
 DOCUMENT NUMBER: 88:152052
 TITLE: Fatty acid esters
 PATENT ASSIGNEE(S): Imperial Chemical Industries Ltd., UK
 SOURCE: Neth. Appl., 5 pp.
 CODEN: NAXXAN
 DOCUMENT TYPE: Patent
 LANGUAGE: Dutch
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|----------|-----------------|----------|
| NL 7702172 | A | 19770921 | NL 1977-2172 | 19770301 |
| GB 1507641 | A | 19780419 | GB 1976-11145 | 19770218 |
| AU 7722618 | A | 19780831 | AU 1977-22618 | 19770224 |

PRIORITY APPLN. INFO.: GB 1976-11145 A 19760319

AB Fatty acid esters of long-chain alcs. were prepared by hydroformylating an α-alkene fraction and intramol. oxidation-reduction of the resulting aldehyde mixture in the presence of Al isopropanolate.

L12 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1977:170875 CAPLUS
 DOCUMENT NUMBER: 86:170875
 TITLE: Separation of oxo-synthesis products
 INVENTOR(S): Altsybeeva, A. I.; Aristovich, V. Yu.; Alekseeva, K.

A.; Kuzinova, T. M.; Kuz'mina, L. S.; Levin, S. Z.;
Maiorova, L. V.

PATENT ASSIGNEE(S):

USSR

SOURCE:

U.S.S.R. From: Otkrytiya, Izobret., Prom. Obraztsy,
Tovarnye Znaki 1976, 53(46), 85-6.

CODEN: URXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Russian

FAMILY ACC. NUM. COUNT:

1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|----------|-----------------|------------|
| SU 539023 | A1 | 19761215 | SU 1975-2096408 | 19750116 |
| | | | SU 1975-2096408 | A 19750116 |

PRIORITY APPLN. INFO.:

AB Esters of C10-C16 synthetic fatty acids and N-hydroxyethylcaprolactam or -benzotriazole were added (0.2 weight%) as stabilizers to oxo-synthesis products.

L12 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1974:135193 CAPLUS

DOCUMENT NUMBER: 80:135193

TITLE: Synthetic wax

INVENTOR(S): Yamauchi, Takeo; Suzuki, Takeshi

PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Co., Ltd.

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:

1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------|------|----------|-----------------|------------|
| JP 48067203 | A | 19730913 | JP 1971-102034 | 19711216 |
| | | | JP 1971-102034 | A 19711216 |

PRIORITY APPLN. INFO.:

AB A C>16 olefin mixture was hydroformylated and the mixed aldehyde was oxidized to a carboxylic acid mixture which on esterification with MeOH, glycols, or other alcs. gave a good wax. Thus, a C20-8 α -olefin mixt was treated with a CO-H mixture at 110.deg. in an autoclave in the presence of Rh acetate and the product oxidized with air at 70.deg. to give C21-9 fatty acid mixture of acid number 134.6, containing .sim.50% 2-Me isomers, which was converted to Me ester, m. 49.deg. and blended with paraffin wax and mineral spirits to give a good wax paste.

=> d his

(FILE 'HOME' ENTERED AT 08:53:30 ON 18 SEP 2007)

FILE 'CPLUS' ENTERED AT 08:53:42 ON 18 SEP 2007

| | |
|----|--|
| L1 | 7547 S ABB=ON PLU=ON HYDROFORMYLAT? |
| L2 | 344310 S ABB=ON PLU=ON FATTY (2W) ACID |
| L3 | 8 S ABB=ON PLU=ON S FATTY (2W) ACID (2W) ESTER |
| L4 | 4657 S ABB=ON PLU=ON PHOSPHINE (2W) LIGANDS |
| L5 | 0 S ABB=ON PLU=ON METAL ADJ CATION |
| L6 | 20536 S METAL CATION |
| L7 | 46267 S FATTY ACID (2W) ESTER? |

L8 88 S L1 AND L2
 L9 2 S L8 AND L4
 L10 35 S L7 AND L1
 L11 35 S L10 NOT L9
 L12 9 S L11 AND ALDEHYDE

=> s mono adj alcohol
 146610 MONO
 274 MONOS
 146872 MONO
 (MONO OR MONOS)
 271 ADJ
 268897 ALCOHOL
 175850 ALCOHOLS
 411430 ALCOHOL
 (ALCOHOL OR ALCOHOLS)
 599507 ALC
 194274 ALCS
 696591 ALC
 (ALC OR ALCS)
 858248 ALCOHOL
 (ALCOHOL OR ALC)
 L13 0 MONO ADJ ALCOHOL
 (MONO (W) ADJ (W) ALCOHOL)

=> s mono alcohol
 146610 MONO
 274 MONOS
 146872 MONO
 (MONO OR MONOS)
 268897 ALCOHOL
 175850 ALCOHOLS
 411430 ALCOHOL
 (ALCOHOL OR ALCOHOLS)
 599507 ALC
 194274 ALCS
 696591 ALC
 (ALC OR ALCS)
 858248 ALCOHOL
 (ALCOHOL OR ALC)
 L14 195 MONO ALCOHOL
 (MONO.(W) ALCOHOL)

=> s diol
 79202 DIOL
 24604 DIOLS
 L15 93005 DIOL
 (DIOL OR DIOLS)

=> s triol
 13778 TRIOL
 2719 TRIOLS
 L16 15205 TRIOL
 (TRIOL OR TRIOLS)

=> s 115 and 65 (2w) percent
 422705 65
 92022 PERCENT
 1909 PERCENTS

93656 PERCENT
 (PERCENT OR PERCENTS)
 254 65 (2W) PERCENT
 L17 2 L15 AND 65 (2W) PERCENT

=> d 117 1-2 ibib abs

L17 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2003:947720 CAPLUS
 DOCUMENT NUMBER: 139:382727
 TITLE: Polyurethane/ureas useful for the production of spandex and a process for their production
 INVENTOR(S): Lawrey, Bruce D.
 PATENT ASSIGNEE(S): Bayer Corporation, USA
 SOURCE: Eur. Pat. Appl., 14 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|--|-----------------|------------|
| EP 1367074 | A1 | 20031203 | EP 2003-11475 | 20030521 |
| EP 1367074 | B1 | 20060920 | | |
| R: AT, BE, CH, DE, DK, ES, FR, IE, SI, LT, LV, FI, RO, MK | | GB, GR, IT, LI, LU, NL, SE, MC, PT, CY, AL, TR, BG, CZ, EE, HU, SK | | |
| US 2003224683 | A1 | 20031204 | US 2002-159011 | 20020530 |
| US 6903179 | B2 | 20050607 | | |
| MX 2003PA04523 | A | 20041029 | MX 2003-PA4523 | 20030522 |
| CA 2430045 | A1 | 20031130 | CA 2003-2430045 | 20030526 |
| BR 2003001948 | A | 20040824 | BR 2003-1948 | 20030528 |
| JP 2004035880 | A | 20040205 | JP 2003-152568 | 20030529 |
| CN 1461759 | A | 20031217 | CN 2003-137895 | 20030530 |
| PRIORITY APPLN. INFO.: | | | US 2002-159011 | A 20020530 |

AB Segmented polyurethane-ureas with good mech. and thermal properties and useful for the production of spandex are produced by chain extending, in the presence of a solvent, an isocyanate-terminated prepolymer prepared by reacting a stoichiometric excess of an isocyanate with an isocyanate-reactive component which includes: (1) from about 5 to about 30 equiv percent of a polyoxypropylene diol having a mol. weight of at least 1500 Da and an unsatn. level less than or equal to 0.03 meq/g; (2) from about 20 to about 60 equiv percent of a polytetramethylene ether glycol having a mol. weight less than 1000 Da; and (3) from about 25 to about 65 equiv percent of a polytetramethylene ether glycol having a mol. weight greater than or equal to 1000 Da. Thus, polyoxypropylene diol having mol. weight 4000 Da (weight% 45.6), polytetramethylene glycol having mol. weight 2000 Da (weight% 49.7), and polytetramethylene glycol having mol. weight 250 Da (weight % 4.7%) was reacted with MDI to obtain a prepolymer, which was subsequently reacted with ethylene diamine (mol.% 82.5) and isophorone diamine (mo.% 15) in the presence of diethylamine (mol.% 2.5) to give a block polyoxyalkylene-polyurea-polyurethane, which after spinning into a fiber (nominal denier 40) exhibited modulus at 100%, at 200%, and at 300% 0.062, 0.115, and 0.179 cN/dtex, resp.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:747901 CAPLUS
 DOCUMENT NUMBER: 139:262188
 TITLE: Polyurethane/ureas useful for the production of spandex and a process for their production
 INVENTOR(S): Lawrey, Bruce D.
 PATENT ASSIGNEE(S): Bayer Corporation, USA
 SOURCE: U.S., 8 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|----------|
| US 6624281 | B1 | 20030923 | US 2002-158616 | 20020530 |
| EP 1367072 | A1 | 20031203 | EP 2003-11473 | 20030521 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | | | |
| CA 2430046 | A1 | 20031130 | CA 2003-2430046 | 20030526 |
| BR 2003001726 | A | 20040824 | BR 2003-1726 | 20030526 |
| MX 2003PA04695 | A | 20050214 | MX 2003-PA4695 | 20030528 |
| JP 2004035877 | A | 20040205 | JP 2003-152183 | 20030529 |
| CN 1461760 | A | 20031217 | CN 2003-138295 | 20030530 |

PRIORITY APPLN. INFO.: US 2002-158616 A 20020530
 AB Segmented polyurethane-ureas with good mech. and thermal properties and useful for the production of spandex are produced by chain extending, in the presence of a solvent, an isocyanate-terminated prepolymer prepared by reacting a stoichiometric excess of an isocyanate with an isocyanate-reactive component which includes: (1) from about 5 to about 30 equiv percent of a polyoxypropylene diol having a mol. weight of at least 1500 Da and an unsatn. level less than or equal to 0.03 meq/g; (2) from about 20 to about 60 equiv percent of a polytetramethylene ether glycol having a mol. weight less than 1000 Da; and (3) from about 25 to about 65 equiv percent of a polytetramethylene ether glycol having a mol. weight greater than or equal to 1000 Da. Thus, polyoxypropylene diol having mol. weight 4000 Da (weight% 45.6), polytetramethylene glycol having mol. weight 2000 Da (weight% 49.7), and polytetramethylene glycol having mol. weight 250 Da (weight % 4.7%) was reacted with MDI to obtain a prepolymer, which was subsequently reacted with ethylene diamine (mol.% 82.5) and isophorone diamine (mo.% 15) in the presence of diethylamine (mol.% 2.5) to give a block polyoxyalkylene-polyurea-polyurethane, which after spinning into a fiber (nominal denier 40) exhibited modulus at 100%, at 200%, and at 300% 0.062, 0.115, and 0.179 CN/dtex, resp.

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 08:53:30 ON 18 SEP 2007)

FILE 'CAPLUS' ENTERED AT 08:53:42 ON 18 SEP 2007
 L1 7547 S ABB=ON PLU=ON HYDROFORMYLAT?
 L2 344310 S ABB=ON PLU=ON FATTY (2W) ACID
 L3 8 S ABB=ON PLU=ON S FATTY (2W) ACID (2W) ESTER
 L4 4657 S ABB=ON PLU=ON PHOSPHINE (2W) LIGANDS
 L5 0 S ABB=ON PLU=ON METAL ADJ CATION

L6 20536 S METAL CATION
 L7 46267 S FATTY ACID (2W) ESTER?
 L8 88 S L1 AND L2
 L9 2 S L8 AND L4
 L10 35 S L7 AND L1
 L11 35 S L10 NOT L9
 L12 9 S L11 AND ALDEHYDE
 L13 0 S MONO ADJ ALCOHOL
 L14 195 S MONO ALCOHOL
 L15 93005 S DIOL
 L16 15205 S TRIOL
 L17 2 S L15 AND 65 (2W) PERCENT

=> l15 and l16 and l14

L15 IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.
 For a list of commands available to you in the current file, enter
 "HELP COMMANDS" at an arrow prompt (>).

=> s l15 and l16
 L18 5910 L15 AND L16

=> s l18 and ratio
 1215241 RATIO
 322027 RATIOS
 1432783 RATIO
 (RATIO OR RATIOS)

L19 486 L18 AND RATIO

=> s l19 and five to one
 295941 FIVE
 71 FIVES
 296005 FIVE
 (FIVE OR FIVES)
 2412282 ONE
 183218 ONES
 2557497 ONE
 (ONE OR ONES)
 603 FIVE TO ONE
 (FIVE(1W)ONE)

L20 0 L19 AND FIVE TO ONE

=> s l19 and l1
 L21 1 L19 AND L1

=> d 121 ibib

L21 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:965199 CAPLUS
 DOCUMENT NUMBER: 141:412736
 TITLE: Aldehyde and alcohol compositions derived from seed
 oils
 INVENTOR(S): Lysenko, Zenon; Morrison, Donald L.; Babb, David A.;
 Bunning, Donald L.; Derstine, Christopher W.;
 Gilchrist, James H.; Jouett, Ray H.; Kanel, Jeffrey
 S.; Olson, Kurt D.; Peng, Wei-Jun; Phillips, Joe D.;
 Roesch, Brian M.; Sanders, Aaron W.; Schrock, Alan K.;
 Thomas, P. J.
 PATENT ASSIGNEE(S): Dow Global Technologies Inc., USA

SOURCE: PCT Int. Appl., 35 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--|----------|------------------|------------|
| WO 2004096744 | A2 | 20041111 | WO 2004-US12246 | 20040422 |
| WO 2004096744 | A3 | 20050120 | | |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
TD, TG | | | |
| CA 2523433 | A1 | 20041111 | CA 2004-2523433 | 20040422 |
| EP 1620387 | A2 | 20060201 | EP 2004-750403 | 20040422 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK | | | |
| CN 1780808 | A | 20060531 | CN 2004-80011116 | 20040422 |
| BR 2004010529 | A | 20060620 | BR 2004-10529 | 20040422 |
| US 2006193802 | A1 | 20060831 | US 2005-551854 | 20050930 |
| IN 2005CN02747 | A | 20070831 | IN 2005-CN2747 | 20051024 |
| PRIORITY APPLN. INFO.: | | | US 2003-465663P | P 20030425 |
| | | | WO 2004-US12246 | W 20040422 |

OTHER SOURCE(S): MARPAT 141:412736

=> d his

(FILE 'HOME' ENTERED AT 08:53:30 ON 18 SEP 2007)

FILE 'CAPLUS' ENTERED AT 08:53:42 ON 18 SEP 2007

| | |
|-----|--|
| L1 | 7547 S ABB=ON PLU=ON HYDROFORMYLAT? |
| L2 | 344310 S ABB=ON PLU=ON FATTY (2W) ACID |
| L3 | 8 S ABB=ON PLU=ON S FATTY (2W) ACID (2W) ESTER |
| L4 | 4657 S ABB=ON PLU=ON PHOSPHINE (2W) LIGANDS |
| L5 | 0 S ABB=ON PLU=ON METAL ADJ CATION |
| L6 | 20536 S METAL CATION |
| L7 | 46267 S FATTY ACID (2W) ESTER? |
| L8 | 88 S L1 AND L2 |
| L9 | 2 S L8 AND L4 |
| L10 | 35 S L7 AND L1 |
| L11 | 35 S L10 NOT L9 |
| L12 | 9 S L11 AND ALDEHYDE |
| L13 | 0 S MONO ADJ ALCOHOL |
| L14 | 195 S MONO ALCOHOL |
| L15 | 93005 S DIOL |
| L16 | 15205 S TRIOL |
| L17 | 2 S L15 AND 65 (2W) PERCENT |
| L18 | 5910 S L15 AND L16 |
| L19 | 486 S L18 AND RATIO |

L20 0 S L19 AND FIVE TO ONE
L21 1 S L19 AND L1

=> s 114 and 13
L22 0 L14 AND L3

=> s alcohol
 268897 ALCOHOL
 175850 ALCOHOLS
 411430 ALCOHOL
 (ALCOHOL OR ALCOHOLS)
 599507 ALC
 194274 ALCS
 696591 ALC
 (ALC OR ALCS)
L23 858248 ALCOHOL
 (ALCOHOL OR ALC)

=> s 123 and 17
L24 13110 L23 AND L7

=> s 124 and 115
L25 242 L24 AND L15

=> s 125 and 116
L26 23 L25 AND L16

=> s 126 not 121
L27 22 L26 NOT L21

=> 127 and 14
L27 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (>).

=> s 127 and 14
L28 0 L27 AND L4

=> d 127 1-22 ibib

L27 ANSWER 1 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2007:348602 CAPLUS
DOCUMENT NUMBER: 147:51914
TITLE: Production of polyols from canola oil and their
 chemical identification and physical properties
AUTHOR(S): Narine, Suresh S.; Yue, Jin; Kong, Xiaohua
CORPORATE SOURCE: Department of Agricultural Food and Nutritional
 Science, 4-10 Agricultural/Forestry Centre, University
 of Alberta, Edmonton, AB, T6G 2P5, Can.
SOURCE: Journal of the American Oil Chemists' Society (2007),
 84(2), 173-179
 CODEN: JAOCA7; ISSN: 0003-021X
PUBLISHER: Springer
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 2 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:1225815 CAPLUS
DOCUMENT NUMBER: 143:462032
TITLE: Aliphatic intermediate products
AUTHOR(S): Behr, Arno; Arnold, Joerg; Bahke, Philip; Dehn, Dietmar; Dettmer, Michael; Dugal, Markus; Fischer, Achim; Fornika, Roland; Frauenkron, Matthias; Gutsche, Bernhard; Heidbreder, Andreas; Keim, Wilhelm; Knebel, Joachim; Melder, Johann-Peter; Mielke, Ingolf; Noweck, Klaus; Pelzer, Gerit; Rothstock, Sonja; Schoebel, Rene; Schuler, Joachim; Schulte, Christian; Schwerin, Albrecht; Seuster, Joachim; Wegener, Gerhard; Woelfert, Andreas
CORPORATE SOURCE: Fachbereich Bio- und Chemieingenieurwesen, Lehrstuhl fuer Technische Chemie A, Universitaet Dortmund, Dortmund, 44227, Germany
SOURCE: Winnacker-Kuechler: Chemische Technik (5. Auflage) (2005), Volume 5, 1-266. Editor(s): Dittmeyer, Roland. Wiley-VCH Verlag GmbH & Co. KGaA: Weinheim, Germany.
DOCUMENT TYPE: Conference; General Review
LANGUAGE: German
REFERENCE COUNT: 512 THERE ARE 512 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 3 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:263979 CAPLUS
DOCUMENT NUMBER: 138:382115
TITLE: Isolation, structural elucidation, and inhibitory effects of terpenoid and lipid constituents from sunflower pollen on Epstein-Barr virus early antigen induced by tumor promoter, TPA
AUTHOR(S): Ukiya, Motohiko; Akihisa, Toshihiro; Tokuda, Harukuni; Koike, Kazuo; Takayasu, Junko; Okuda, Hiroki; Kimura, Yumiko; Nikaido, Tamotsu; Nishino, Hoyoku
CORPORATE SOURCE: College of Science and Technology, Nihon University, Tokyo, Chiyoda-ku, 101-8308, Japan
SOURCE: Journal of Agricultural and Food Chemistry (2003), 51(10), 2949-2957
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 4 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:790216 CAPLUS
DOCUMENT NUMBER: 137:313302
TITLE: Lubricating oils based on polyhydric alcohols with heterogeneous fatty acid chain lengths
INVENTOR(S): Kodali, Dharma R.; Nivens, Scott C.
PATENT ASSIGNEE(S): Cargill Incorporated, USA
SOURCE: U.S., 23 pp., Cont.-in-part of U.S. 6,278,006.
DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|-------------|
| US 6465401 | B1 | 20021015 | US 2000-487700 | 20000119 |
| US 6278006 | B1 | 20010821 | US 1999-233617 | 19990119 |
| AT 343621 | T | 20061115 | AT 2000-909928 | 20000119 |
| US 2003176300 | A1 | 20030918 | US 2002-253742 | 20020924 |
| US 6943262 | B2 | 20050913 | | |
| US 2005176597 | A1 | 20050811 | US 2005-72071 | 20050304 |
| PRIORITY APPLN. INFO.: | | | US 1999-233617 | A2 19990119 |
| | | | US 2000-487700 | A1 20000119 |
| | | | US 2002-253742 | A3 20020924 |

OTHER SOURCE(S):

MARPAT 137:313302

REFERENCE COUNT:

37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 5 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:219900 CAPLUS

DOCUMENT NUMBER: 130:253642

TITLE: Warp sizing composition for low-temperature sizing

INVENTOR(S): Bloch, Joachim

PATENT ASSIGNEE(S): Chimitek S.A.R.L., Fr.

SOURCE: Eur. Pat. Appl., 7 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|--|----------|
| EP 905301 | A1 | 19990331 | EP 1997-115138 | 19970902 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI | | | EP 1997-115138 | 19970902 |
| PRIORITY APPLN. INFO.: | | | | |
| REFERENCE COUNT: | 7 | | THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT | |

L27 ANSWER 6 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:256011 CAPLUS

DOCUMENT NUMBER: 129:34268

TITLE: Plastic lens material

INVENTOR(S): Ichikawa, Yukio; Sakagami, Teruo

PATENT ASSIGNEE(S): Kureha Chemical Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO., | DATE |
|------------------------|------|----------|------------------|------------|
| JP 10104401 | A | 19980424 | JP 1997-203058 | 19970729 |
| PRIORITY APPLN. INFO.: | | | JP 1996-205743 | A 19960805 |

L27 ANSWER 7 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:764606 CAPLUS
 DOCUMENT NUMBER: 128:49779
 TITLE: In-process analysis of multifunctional esters by NIR spectroscopy
 AUTHOR(S): Curtin, David L.
 CORPORATE SOURCE: Stepan Company, Northfield, IL, USA
 SOURCE: AT-PROCESS (1997), 3(1,2), 18-25
 CODEN: APJCFR; ISSN: 1077-419X
 PUBLISHER: InfoScience Services
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 8 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1997:483087 CAPLUS
 DOCUMENT NUMBER: 127:96370
 TITLE: Transparent optical disk substrates with low water absorption and birefringence comprising (meth)acrylate polymers
 INVENTOR(S): Kikawa, Hitoshi; Takagi, Masaru; Yamagishi, Hiroshi
 PATENT ASSIGNEE(S): Lion Corp., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 09176239 | A | 19970708 | JP 1995-339805 | 19951227 |
| PRIORITY APPLN. INFO.: | | | JP 1995-339805 | 19951227 |

L27 ANSWER 9 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1997:483086 CAPLUS
 DOCUMENT NUMBER: 127:96369
 TITLE: Transparent optical fiber materials with low water absorption and birefringence comprising (meth)acrylate polymers, and optical fibers therefrom
 INVENTOR(S): Kikawa, Hitoshi; Takagi, Masaru; Yamagishi, Hiroshi
 PATENT ASSIGNEE(S): Lion Corp., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 09176238 | A | 19970708 | JP 1995-339804 | 19951227 |
| PRIORITY APPLN. INFO.: | | | JP 1995-339804 | 19951227 |

L27 ANSWER 10 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1997:374800 CAPLUS
 DOCUMENT NUMBER: 126:344692
 TITLE: Anti-foam system based on hydrocarbon polymers and hydrophobic particulate solids for dishwashing

INVENTOR(S): detergents
 Angevaare, Petrus Adrianus J. M.; Beers, Olaf; Yorke,
 John William H.; Garrett, Peter Robert; Tartakovsky,
 Alla
 PATENT ASSIGNEE(S): Unilever N.V., Neth.; Unilever Plc
 SOURCE: PCT Int. Appl., 51 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| WO 9713832 | A1 | 19970417 | WO 1996-EP3660 | 19960820 |
| W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK,
EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR,
LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU,
SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,
IE, IT, LU; MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA | | | | |
| CA 2233201 | A1 | 19970417 | CA 1996-2233201 | 19960820 |
| AU 9669258 | A | 19970430 | AU 1996-69258 | 19960820 |
| AU 729402 | B2 | 20010201 | | |
| EP 876457 | A1 | 19981111 | EP 1996-930058 | 19960820 |
| EP 876457 | B1 | 20000524 | | |
| R: DE, ES, FR, GB, IT | | | | |
| HU 9802733 | A2 | 19990329 | HU 1998-2733 | 19960820 |
| HU 9802838 | A2 | 19990329 | HU 1998-2838 | 19960820 |
| BR 9610811 | A | 19990713 | BR 1996-10811 | 19960820 |
| ES 2146900 | T3 | 20000816 | ES 1996-930058 | 19960820 |
| ZA 9608438 | A | 19980407 | ZA 1996-8438 | 19961007 |
| PRIORITY APPLN. INFO.: | | | US 1995-540285 | A 19951006 |
| | | | WO 1996-EP3660 | W 19960820 |

OTHER SOURCE(S): MARPAT 126:344692

L27 ANSWER 11 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1997:325443 CAPLUS
 DOCUMENT NUMBER: 126:344103
 TITLE: Castor oil-based polyurethanes. 1. Structural characterization of castor oil - nature of intact glycerides and distribution of hydroxyl groups
 Tran, Ngoc Buu; Vialle, Jean; Pham, Quang Tho
 Centre Service d'Analyse d'Experimentation, Ho Chi Minh-Ville, Vietnam
 AUTHOR(S):
 CORPORATE SOURCE:
 SOURCE: Polymer (1997), 38(10), 2467-2473
 CODEN: POLMAG; ISSN: 0032-3861
 PUBLISHER: Elsevier
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 12 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1997:223402 CAPLUS
 DOCUMENT NUMBER: 126:213112
 TITLE: Transparent light-weight acrylic optical conductors
 INVENTOR(S): Kikawa, Hitoshi; Takagi, Masaru; Yamagishi, Hiroshi;
 Inagaki, Takeo

PATENT ASSIGNEE(S) : Lion Corp, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 09012631 | A | 19970114 | JP 1995-160860 | 19950627 |
| PRIORITY APPLN. INFO.: | | | JP 1995-160860 | 19950627 |

L27 ANSWER 13 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1997:197813 CAPLUS
 DOCUMENT NUMBER: 126:186518
 TITLE: Preparation of polyfunctional α,β -unsaturated carboxylic acid esters
 INVENTOR(S) : Kikawa, Hitoshi; Takagi, Masaru; Yamagishi, Hiroshi
 PATENT ASSIGNEE(S) : Lion Corp, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--------|------------|-----------------|----------|
| JP 09003004 | A | 19970107 | JP 1995-156384 | 19950622 |
| PRIORITY APPLN. INFO.: | | | JP 1995-156384 | 19950622 |
| OTHER SOURCE(S) : | MARPAT | 126:186518 | | |

L27 ANSWER 14 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1996:87741 CAPLUS
 DOCUMENT NUMBER: 124:118275
 TITLE: Higher aliphatic triols, manufacture thereof, and esters of the triols with unsaturated aliphatic carboxylic acids
 INVENTOR(S) : Kikawa, Hitoshi; Yamagishi, Hiroshi; Suzuki, Noriko; Asao, Yoshiichi
 PATENT ASSIGNEE(S) : Lion Corp, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--------|------------|-----------------|------------|
| JP 07304701 | A | 19951121 | JP 1995-83390 | 19950315 |
| JP 2847210 | B2 | 19990113 | | |
| PRIORITY APPLN. INFO.: | | | JP 1995-83390 | A 19950315 |
| | | | JP 1994-71542 | 19940316 |
| OTHER SOURCE(S) : | MARPAT | 124:118275 | | |

L27 ANSWER 15 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1994:579110 CAPLUS

DOCUMENT NUMBER: 121:179110
 TITLE: Process for the selective production of fatty acid monoesters of diols and triols using zeolitic catalysts
 INVENTOR(S): Aracil Mira, Jose; Corma Canos, Avelino; Martinez Rodriguez, Mercedes; Sanchez Menendez, Nieves
 PATENT ASSIGNEE(S): Consejo Superior de Investigaciones Cientificas, Spain; Universidad Politecnica de Valencia; Universidad Complutense
 SOURCE: PCT Int. Appl., 14 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Spanish
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| WO 9413617 | A1 | 19940623 | WO 1993-ES100 | 19931216 |
| W: CA, JP, US
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | |
| ES 2062928 | A1 | 19941216 | ES 1992-2555 | 19921217 |
| ES 2062928 | B1 | 19950716 | | |
| EP 627404 | A1 | 19941207 | EP 1994-902781 | 19931216 |
| EP 627404 | B1 | 19970820 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE | | | | |
| AT 157078 | T | 19970915 | AT 1994-902781 | 19931216 |
| ES 2107173 | T3 | 19971116 | ES 1994-902781 | 19931216 |
| PRIORITY APPLN. INFO.: | | | ES 1992-2555 | A 19921217 |
| | | | WO 1993-ES100 | W 19931216 |

OTHER SOURCE(S): CASREACT 121:179110

L27 ANSWER 16 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1991:645673 CAPLUS
 DOCUMENT NUMBER: 115:245673
 TITLE: Electrically conductive paste for via hole filler and ceramic multilayered wiring substrate using it
 INVENTOR(S): Matsuyama, Shirohito
 PATENT ASSIGNEE(S): Narumi China Corp., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 03138806 | A | 19910613 | JP 1989-276428 | 19891024 |
| PRIORITY APPLN. INFO.: | | | JP 1989-276428 | 19891024 |

L27 ANSWER 17 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1991:88653 CAPLUS
 DOCUMENT NUMBER: 114:88653
 TITLE: Topical pharmaceuticals containing buprenorphine salts
 INVENTOR(S): Szuktak, Joan Bolduc; Manring, Gary Lee; Smith, Ronald Lee; Drust, Eugene George
 PATENT ASSIGNEE(S): Norwich Eaton Pharmaceuticals, Inc., USA
 SOURCE: Eur. Pat. Appl., 10 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| EP 368409 | A2 | 19900516 | EP 1989-202799 | 19891107 |
| EP 368409 | A3 | 19901219 | | |
| R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE | | | | |
| CA 2002299 | A1 | 19900510 | CA 1989-2002299 | 19891106 |
| JP 02191215 | A | 19900727 | JP 1989-293763 | 19891110 |
| PRIORITY APPLN. INFO.: | | | US 1988-269943 | A 19881110 |

L27 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1991:49578 CAPLUS

DOCUMENT NUMBER:

114:49578

TITLE: Topical pharmaceuticals containing buprenorphine

Drust, Eugene George; Smith, Ronald Lee; Kasting, Gerald Bruce; Szkutak, Joan Bolduc

PATENT ASSIGNEE(S): Norwich Eaton Pharmaceuticals, Inc., USA

SOURCE: Eur. Pat. Appl., 8 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| EP 368406 | A2 | 19900516 | EP 1989-202795 | 19891107 |
| EP 368406 | A3 | 19901219 | | |
| EP 368406 | B1 | 19930728 | | |
| R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE | | | | |
| US 5026556 | A | 19910625 | US 1988-269944 | 19881110 |
| CA 2002300 | A1 | 19900510 | CA 1989-2002300 | 19891106 |
| CA 2002300 | C | 19950411 | | |
| AT 91894 | T | 19930815 | AT 1989-202795 | 19891107 |
| JP 02191214 | A | 19900727 | JP 1989-293762 | 19891110 |
| JP 2930623 | B2 | 19990803 | | |
| PRIORITY APPLN. INFO.: | | | US 1988-269944 | A 19881110 |
| | | | EP 1989-202795 | A 19891107 |

L27 ANSWER 19 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1990:181336 CAPLUS

DOCUMENT NUMBER:

112:181336

TITLE: Fiber finishing agents for high-speed friction
false-twist draw-texturing process

INVENTOR(S): Furuichi, Toshimoto; Doi, Tetsuo; Munekyo, Takeshi

PATENT ASSIGNEE(S): Matsumoto Yushi-Seiyaku Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|------|-----------------|------|
|------------|------|------|-----------------|------|

Serial No.: 10/551854

JP 01298281 A 19891201 JP 1988-126316 19880524
PRIORITY APPLN. INFO.: JP 1988-126316 19880524

L27 ANSWER 20 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1977:504141 CAPLUS
DOCUMENT NUMBER: 87:104141
TITLE: Fluidities and lubricities of branched-chain fatty acids and their esters in rolling
AUTHOR(S): Kamita, Toru; Yoshida, Takao
CORPORATE SOURCE: Maruzen Sekiyu Co., Saitama, Japan
SOURCE: Junkatsu (1976), 21(12), 819-23
CODEN: JUNKAU; ISSN: 0449-4156
DOCUMENT TYPE: Journal
LANGUAGE: Japanese

L27 ANSWER 21 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1967:12136 CAPLUS
DOCUMENT NUMBER: 66:12136
ORIGINAL REFERENCE NO.: 66:2399a,2402a
TITLE: Water-oil emulsions
INVENTOR(S): Walther, Guntram; Stein, Werner
PATENT ASSIGNEE(S): DEHYDAG Deutsche Hydrierwerke G.m.b.H.
SOURCE: U.S., 3 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| US 3281374 | | 19661025 | US 1963-263733 | 19630308 |
| PRIORITY APPLN. INFO.: | | | DE | 19620314 |

L27 ANSWER 22 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1954:5600 CAPLUS
DOCUMENT NUMBER: 48:5600
ORIGINAL REFERENCE NO.: 48:1034g-i
TITLE: Monoesters of polyhydric alcohols
INVENTOR(S): Malkemus, John D.
PATENT ASSIGNEE(S): Colgate-Palmolive-Peet Co.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|----------|-----------------|----------|
| US 2655522 | | 19531013 | US 1946-664983 | 19460425 |

=> d his

(FILE 'HOME' ENTERED AT 08:53:30 ON 18 SEP 2007)

FILE 'CAPLUS' ENTERED AT 08:53:42 ON 18 SEP 2007
L1 7547 S ABB=ON PLU=ON HYDROFORMYLAT?

L2 344310 S ABB=ON PLU=ON FATTY (2W) ACID
L3 8 S ABB=ON PLU=ON S FATTY (2W) ACID (2W) ESTER
L4 4657 S ABB=ON PLU=ON PHOSPHINE (2W) LIGANDS
L5 0 S ABB=ON PLU=ON METAL ADJ CATION
L6 20536 S METAL CATION
L7 46267 S FATTY ACID (2W) ESTER?
L8 88 S L1 AND L2
L9 2 S L8 AND L4
L10 35 S L7 AND L1
L11 35 S L10 NOT L9
L12 9 S L11 AND ALDEHYDE
L13 0 S MONO ADJ ALCOHOL
L14 195 S MONO ALCOHOL
L15 93005 S DIOL
L16 15205 S TRIOL
L17 2 S L15 AND 65 (2W) PERCENT
L18 5910 S L15 AND L16
L19 486 S L18 AND RATIO
L20 0 S L19 AND FIVE TO ONE
L21 1 S L19 AND L1
L22 0 S L14 AND L3
L23 858248 S ALCOHOL
L24 13110 S L23 AND L7
L25 242 S L24 AND L15
L26 23 S L25 AND L16
L27 22 S L26 NOT L21
L28 0 S L27 AND L4

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(FILE 'HOME' ENTERED AT 08:53:30 ON 18 SEP 2007)

FILE 'CAPLUS' ENTERED AT 08:53:42 ON 18 SEP 2007

| | |
|-----|--|
| L1 | 7547 S ABB=ON PLU=ON HYDROFORMYLAT? |
| L2 | 344310 S ABB=ON PLU=ON FATTY (2W) ACID |
| L3 | 8 S ABB=ON PLU=ON S FATTY (2W) ACID (2W) ESTER |
| L4 | 4657 S ABB=ON PLU=ON PHOSPHINE (2W) LIGANDS |
| L5 | 0 S ABB=ON PLU=ON METAL ADJ CATION |
| L6 | 20536 S METAL CATION |
| L7 | 46267 S FATTY ACID (2W) ESTER? |
| L8 | 88 S L1 AND L2 |
| L9 | 2 S L8 AND L4 |
| L10 | 35 S L7 AND L1 |
| L11 | 35 S L10 NOT L9 |
| L12 | 9 S L11 AND ALDEHYDE |
| L13 | 0 S MONO ADJ ALCOHOL |
| L14 | 195 S MONO ALCOHOL |
| L15 | 93005 S DIOL |
| L16 | 15205 S TRIOL |
| L17 | 2 S L15 AND 65 (2W) PERCENT |
| L18 | 5910 S L15 AND L16 |
| L19 | 486 S L18 AND RATIO |
| L20 | 0 S L19 AND FIVE TO ONE |
| L21 | 1 S L19 AND L1 |
| L22 | 0 S L14 AND L3 |
| L23 | 858248 S ALCOHOL |
| L24 | 13110 S L23 AND L7 |
| L25 | 242 S L24 AND L15 |
| L26 | 23 S L25 AND L16 |
| L27 | 22 S L26 NOT L21 |
| L28 | 0 S L27 AND L4 |

=> file uspatfull

COST IN U.S. DOLLARS

| SINCE FILE
ENTRY | TOTAL
SESSION |
|---------------------|------------------|
| 148.80 | 149.01 |

FULL ESTIMATED COST

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE
ENTRY | TOTAL
SESSION |
|--|---------------------|------------------|
| CA SUBSCRIBER PRICE | -10.14 | -10.14 |

FILE 'USPATFULL' ENTERED AT 09:22:29 ON 18 SEP 2007

CA INDEXING COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 18 Sep 2007 (20070918/PD)

FILE LAST UPDATED: 18 Sep 2007 (20070918/ED)

HIGHEST GRANTED PATENT NUMBER: US7272859

HIGHEST APPLICATION PUBLICATION NUMBER: US2007214536

CA INDEXING IS CURRENT THROUGH 18 Sep 2007 (20070918/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 18 Sep 2007 (20070918/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2007

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2007

=> s hysroformylat?

L29 0 HYSROFORMYLAT?

=> s hydroformylat?
L30 3412 HYDROFORMYLAT?

=> s fatty acid (2w) ester?
220250 FATTY
925749 ACID
548545 ACIDS
950123 ACID
(ACID OR ACIDS)
191812 FATTY ACID
(FATTY (W) ACID)
480447 ESTER?
L31 71195 FATTY ACID (2W) ESTER?

=> s monoformyl
L32 71 MONOFORMYL

=> l29 and l30
L29 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (>).

=> s 129 and 130
L33 0 L29 AND L30

=> s 130 and 131
L34 223 L30 AND L31

=> l 134 and 132
L IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (>).

=> s 134 and 132
L35 4 L34 AND L32

=> d 135 1-4 ibib abs

L35 ANSWER 1 OF 4 USPATFULL on STN
ACCESSION NUMBER: 2006:227438 USPATFULL
TITLE: Aldehyde and alcohol compositions derived from seed
oils
INVENTOR(S): Lysenko, Zenon, Midland, MI, UNITED STATES
Morrison, Donald L., Fort Collins, CO, UNITED STATES
Babb, David A., Lake Jackson, TX, UNITED STATES
Bunning, Donald L., South Charleston, WV, UNITED STATES
Derstine, Christopher W., Winfield, WV, UNITED STATES
Gilchrist, James H., Dunbar, WV, UNITED STATES
Jouett, H. Ray, Houston, TX, UNITED STATES
Kanel, Jeffrey S., Hurricane, WV, UNITED STATES
Olson, Kurt D., Cross Lanes, WV, UNITED STATES
Peng, Wei-Jun, Hurricane, WV, UNITED STATES
Philips, Joe D., Lake Jackson, TX, UNITED STATES
Roesch, Brian M., Cross Lanes, WV, UNITED STATES
Sanders, Aaron W., Missouri City, TX, UNITED STATES
Schrock, Alan K., Lake Jackson, TX, UNITED STATES

Thomas, Pulikkotttil J., Midland, MI, UNITED STATES

| | NUMBER | KIND | DATE |
|---------------------|-----------------|------|-----------------------|
| PATENT INFORMATION: | US 2006193802 | A1 | 20060831 |
| APPLICATION INFO.: | US 2004-551854 | A1 | 20040422 (10) |
| | WO 2004-US12246 | | 20040422 |
| | | | 20050930 PCT 371 date |

| | NUMBER | DATE |
|-----------------------|--|---------------|
| PRIORITY INFORMATION: | US 2003-465663P | 20030425 (60) |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | APPLICATION | |
| LEGAL REPRESENTATIVE: | THE DOW CHEMICAL COMPANY, INTELLECTUAL PROPERTY SECTION, P. O. BOX 1967, MIDLAND, MI, 48641-1967, US | |
| NUMBER OF CLAIMS: | 34 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 1 Drawing Page(s) | |
| LINE COUNT: | 1284 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An aldehyde composition derived by hydroformylation of a transesterified seed oil and containing a mixture of formyl-substituted fatty acids or fatty acid esters having the following composition by weight: greater than about 10 to less than about 95 percent monoformyl, greater than about 1 to less than about 65 percent diformyl, and greater than about 0.1 to less than about 10 percent trifomyl-substituted fatty acids or fatty acid esters, and having a diformyl to trifomyl weight ratio of greater than about 5/1; preferably, greater than about 3 to less than about 20 percent saturates; and preferably, greater than about 1 to less than about 20 percent unsaturates. An alcohol composition derived by hydrogenation of the aforementioned aldehyde composition, containing a mixture of hydroxymethyl-substituted fatty acids or fatty acid esters having the following composition by weight: greater than about 10 to less than about 95 percent monoalcohol {mono(hydroxymethyl)}, greater than about 1 to less than about 65 percent diol {di(hydroxymethyl)}, greater than about 0.1 to less than about 10 percent triol, tri(hydroxymethyl)-substituted fatty acids or fatty acid esters; preferably greater than about 3 to less than about 35 percent saturates; and preferably, less than about 10 percent unsaturates. The alcohol composition can be converted into an oligomeric polyol for use in the manufacture of polyurethane slab stock foams.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L35 ANSWER 2 OF 4 USPATFULL on STN
 ACCESSION NUMBER: 1998:58272 USPATFULL
 TITLE: Process for the hydroformylation of olefinically unsaturated compounds
 INVENTOR(S): Bahrmann, Helmut, Hamminkeln, Germany, Federal Republic of
 Lappe, Peter, Dinslaken, Germany, Federal Republic of
 Fell, Bernhard, Aachen, Germany, Federal Republic of
 Xia, Zhigao, Aachen, Germany, Federal Republic of
 Kanagasabapathy, Subba, Pune, India
 PATENT ASSIGNEE(S): Hoechst Aktiengesellschaft, Germany, Federal Republic of (non-U.S. corporation)

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|--------------|
| PATENT INFORMATION: | US 5756854 | | 19980526 |
| APPLICATION INFO.: | US 1996-701775 | | 19960826 (8) |

| | NUMBER | DATE |
|-----------------------|------------------------------|----------|
| PRIORITY INFORMATION: | DE 1995-19532393 | 19950902 |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | Granted | |
| PRIMARY EXAMINER: | Killos, Paul J. | |
| ASSISTANT EXAMINER: | Parsha, Jafar | |
| LEGAL REPRESENTATIVE: | Bierman, Muserlian and Lucas | |
| NUMBER OF CLAIMS: | 28 | |
| EXEMPLARY CLAIM: | 1 | |
| LINE COUNT: | 564 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process for the hydroformylation of olefinically unsaturated compounds whose hydroformylation products are insoluble or only sparingly soluble in water, comprising reacting the olefinically unsaturated compounds at 60° to 180° C. and 1 to 35 MPa with carbon monoxide and hydrogen in a homogeneous phase in a polar organic solvent and in the presence of a catalyst system comprising a rhodium carbonyl compound and a salt of a sulfonated or carboxylated organic monophosphine or polyphosphine, which salt is soluble both in the polar organic solvent and in water, distilling off the polar organic solvent from the reaction mixture and separating the catalyst system from the distillation residue by extraction with water.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L35 ANSWER 3 OF 4 USPATFULL on STN
 ACCESSION NUMBER: 82:11344 USPATFULL
 TITLE: Bis hydroxymethyl tricyclo (5,2,1,0.sup.2,6) decane
 INVENTOR(S): Rogier, Edgar R., Minnetonka, MN, United States
 PATENT ASSIGNEE(S): Henkel Corporation, Minneapolis, MN, United States
 (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|---------------------------------------|------|--------------|
| PATENT INFORMATION: | US 4319049 | | 19820309 |
| APPLICATION INFO.: | US 1980-194172 | | 19801006 (6) |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Evans, Joseph E. | | |
| LEGAL REPRESENTATIVE: | Collins, Forrest L., Span, Patrick J. | | |
| NUMBER OF CLAIMS: | 4 | | |
| EXEMPLARY CLAIM: | 1 | | |
| LINE COUNT: | 244 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention discloses tricyclic compounds having a gem-bis(hydroxymethyl) functional group. Compounds within the formulae of the present invention include those components having unsaturation in the ring structure and those in which the unsaturation has been converted a halogen or phosphite functionality.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L35 ANSWER 4 OF 4 USPATFULL on STN
 ACCESSION NUMBER: 78:19098 USPATFULL
 TITLE: Acetoxyethyl derivatives of polyunsaturated fatty triglycerides as primary plasticizers for polyvinylchloride
 INVENTOR(S): Frankel, Edwin N., Peoria, IL, United States
 Pryde, Everett H., Peoria, IL, United States
 PATENT ASSIGNEE(S): The United States of America as represented by the Secretary of Agriculture, Washington, DC, United States (U.S. government)

| | NUMBER | KIND | DATE |
|-----------------------|---|------|--------------|
| PATENT INFORMATION: | US 4083816 | | 19780411 |
| APPLICATION INFO.: | US 1976-699920 | | 19760625 (5) |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Schuter, Joseph E. | | |
| ASSISTANT EXAMINER: | Kulkosky, Peter F. | | |
| LEGAL REPRESENTATIVE: | Silverstein, M. Howard, McConnell, David G., Ribando, Curtis P. | | |
| NUMBER OF CLAIMS: | 23 | | |
| EXEMPLARY CLAIM: | 1,5,10 | | |
| LINE COUNT: | 794 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Acetoxyethyl derivatives of mono- and polyunsaturated fatty compounds including their vegetable oil triglycerides were prepared and found to function as primary plasticizers. Polyvinylchloride resins plasticized by the derivative compositions of the invention have permanance properties equal or superior to resins plasticized by dioctyl phthalate, dioctyl sebacate, or other commercial plasticizers.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d his

(FILE 'HOME' ENTERED AT 08:53:30 ON 18 SEP 2007)

FILE 'CAPLUS' ENTERED AT 08:53:42 ON 18 SEP 2007

| | |
|-----|--|
| L1 | 7547 S ABB=ON PLU=ON HYDROFORMYLAT? |
| L2 | 344310 S ABB=ON PLU=ON FATTY (2W) ACID |
| L3 | 8 S ABB=ON PLU=ON S FATTY (2W) ACID (2W) ESTER |
| L4 | 4657 S ABB=ON PLU=ON PHOSPHINE (2W) LIGANDS |
| L5 | 0 S ABB=ON PLU=ON METAL ADJ CATION |
| L6 | 20536 S METAL CATION |
| L7 | 46267 S FATTY ACID (2W) ESTER? |
| L8 | 88 S L1 AND L2 |
| L9 | 2 S L8 AND L4 |
| L10 | 35 S L7 AND L1 |
| L11 | 35 S L10 NOT L9 |
| L12 | 9 S L11 AND ALDEHYDE |
| L13 | 0 S MONO ADJ ALCOHOL |
| L14 | 195 S MONO ALCOHOL |
| L15 | 93005 S DIOL |
| L16 | 15205 S TRIOL |
| L17 | 2 S L15 AND 65 (2W) PERCENT |
| L18 | 5910 S L15 AND L16 |
| L19 | 486 S L18 AND RATIO |

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L20 0 S L19 AND FIVE TO ONE
L21 1 S L19 AND L1
L22 0 S L14 AND L3
L23 858248 S ALCOHOL
L24 13110 S L23 AND L7
L25 242 S L24 AND L15
L26 23 S L25 AND L16
L27 22 S L26 NOT L21
L28 0 S L27 AND L4

FILE 'USPATFULL' ENTERED AT 09:22:29 ON 18 SEP 2007

L29 0 S HYSROFORMYLAT?
L30 3412 S HYDROFORMYLAT?
L31 71195 S FATTY ACID (2W) ESTER?
L32 71 S MONOFORMYL
L33 0 S L29 AND L30
L34 223 S L30 AND L31
L35 4 S L34 AND L32